

Product Specification

3 Mega-Pixel H.264 Box IP CAM

ICA-HM127

Version 1.0

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Change History:

Revision	Date	Author	Change List
Version 1.0	2011/10/18	Frank	Initial release

Author	Frank	Editor:	Frank
Reviewed by:	Jonas	Approved by:	Tom

1. PRODUCT DESCRIPTION

PLANET announces new generation 3 Mega-Pixel series IP-Camera the ICA-HM127. The ICA-HM127 is 3 Mega-Pixel (2048 x 1536) Box POE IP Camera, supports the highest video compression – H.264, which provides small video size and save you lots of bandwidth usage. The new video compression is the best solution for Internet video transmission.



Multi Profiles Streaming

The Multi-profile Streaming function supported enables the ICA-HM127 to generate H.264 / MPEG-4 / M-JPEG streaming simultaneously to differentiate users in different resolutions and frame rates. This state-of-the-art design is considerable to fit in various network environments.

2-Way Audio

The ICA-HM127 provides 2-Way audio function for surveillance. It can remotely talk to anyone at the ICA-HM127 site with additional speaker connected to the camera. Via two ICA-HM127, users can easily communicate to each other no matter for a personal chat.

POE makes Installation Anywhere

Compliant with IEEE 802.3af PoE interface, the ICA-HM127 can be located in places where there are no power outlets. And through Power over Ethernet, the installers are fearless for the power breakdown where it can be powered centrally where UPS installed.

Day & Night Operations

The ICA-HM127 offers high flexibility to be applied in various kinds of IP surveillance environment as it has built-in ICR (IR-cut filter Removable) for day / night capability supports low light surveillance as low as 0.5 LUX illumination.

ONVIF Certified / Professional Software

The ICA-HM127 follows the ONVIF v1.01 and v1.02 standard SDK for user to integration with 3rd party software. The ICA-HM127 can work with the PLANET Cam Viewer 3 Lite/Pro Management software and Network Video Recorder products for video surveillance application and provides monitoring, recording and event management functions to secure your property and life.

2. PRODUCT FEATURES

- 3 Mega-Pixel / Full HD Resolution
- H.264 / MPEG-4 / M-JPEG
- ICR for Day and Night
- IEEE802.3af PoE
- 2-Way Audio / SD slot / 3GPP
- IPv6 / ONVIF

3. PRODUCT SPECIFICATION

3.1 COMPONENT

CPU: DaVinci TM320DM368 430MHZ

RAM: 128M

Flash: 128M

LAN Chipset: Davicom

3. 2 FUNCTIONAL SPECIFICATIONS

Model	ICA-HM127
Camera Specification	
Image Device	1/2.5" Progressive CMOS
Sensitivity	0.5 Lux @ F1.2
Lens	6mm CS mount Lens, DC-Iris support
Night vision function	Built-in removable IR cut filter
View Angle	H: 56 Degree V: 43 Degree
Storage Interface	SD, SDHC support
Video Specification	
Video Compression	H.264 / MPEG4 / M-JPEG
High Resolution mode	H.264 QXGA/1080p MJPEG@QXGA/1080p MPEG4@1080p
Video Resolution	QXGA (2048 x1536): 20 fps 1080p (1920 x 1080): 30 fps Quad-VGA (1280 x 960): 30 fps 720p (1280 x 720): 30 fps D1(720 x 480): 30 fps VGA (640 x 480): 30 fps QVGA (320 x 240): 30 fps
Multi-stream mode	H.264 @720p/D1/VGA/QVGA/QCIF MJPEG@720p/D1/VGA/QVGA and 3GPP MJPEG@720p/D1/VGA/QVGA/QCIF
Auto Exposure Control	Yes
Auto White Balance	Yes
Auto Gain Control	Yes
Text Overlay	Text and Date-time
Image Overlay	Support JPG and Bitmap image format
Audio/Video Specification	
Audio Input	Internal Omni-directional Microphone Sensitivity: more than -42Db +/- 3dB Freq Response: 100~10000Hz External Mic. In ;
Audio Output	Line level out ;1 Vrms ; 3.5mm phone jack; Mono
Compression method	PCM / AMR
Audio S/N ratio	More than 60dB
Operation mode	2 way audio
Composite	CVBS / 1 Vp-p±0.2 / 75 Ohms ; BNC connector
Network and Configuration	
Network Interface	One RJ45 port; IEEE 802.3u compliant 10/100 Mbps Fast Ethernet with Auto-MDIX
Network Protocol	TCP/IP, IPv4/v6, UDP, ICMP, DHCP, NTP, DNS, DDNS, SMTP, FTP, HTTP, HTTPS, Samba, PPPoE , UPnP, Bonjour, RTP, RTSP and RTCP
General	
Power Supply	DC12V / 1A

PoE	IEEE 802.3af
PoE Consumption	Max 8 W
Operating Temperature	0 ~ 50 degree C
Operating Humidity	20% ~ 85%
WEIGHT	390gm (Camera body only, w/o lens)
DIMENSIONS	130.4mm (L) x 72.15mm (W) x 58.30mm (H)
Viewing System	
OS	Windows® XP, 2000 / 2003 / 2008 server, Vista, Win 7
Browser	IE 6.0 or latter
Search & Installation	PLANET IPFinder
Monitor/ Recording / Management	PLANET CV3P (4-ch Cam Viewer Three Pro Trail Version) PLANET CV3L (64-ch Cam Viewer Three Lite Bundle Version)

3.3 PHYSICAL SPECIFICATION

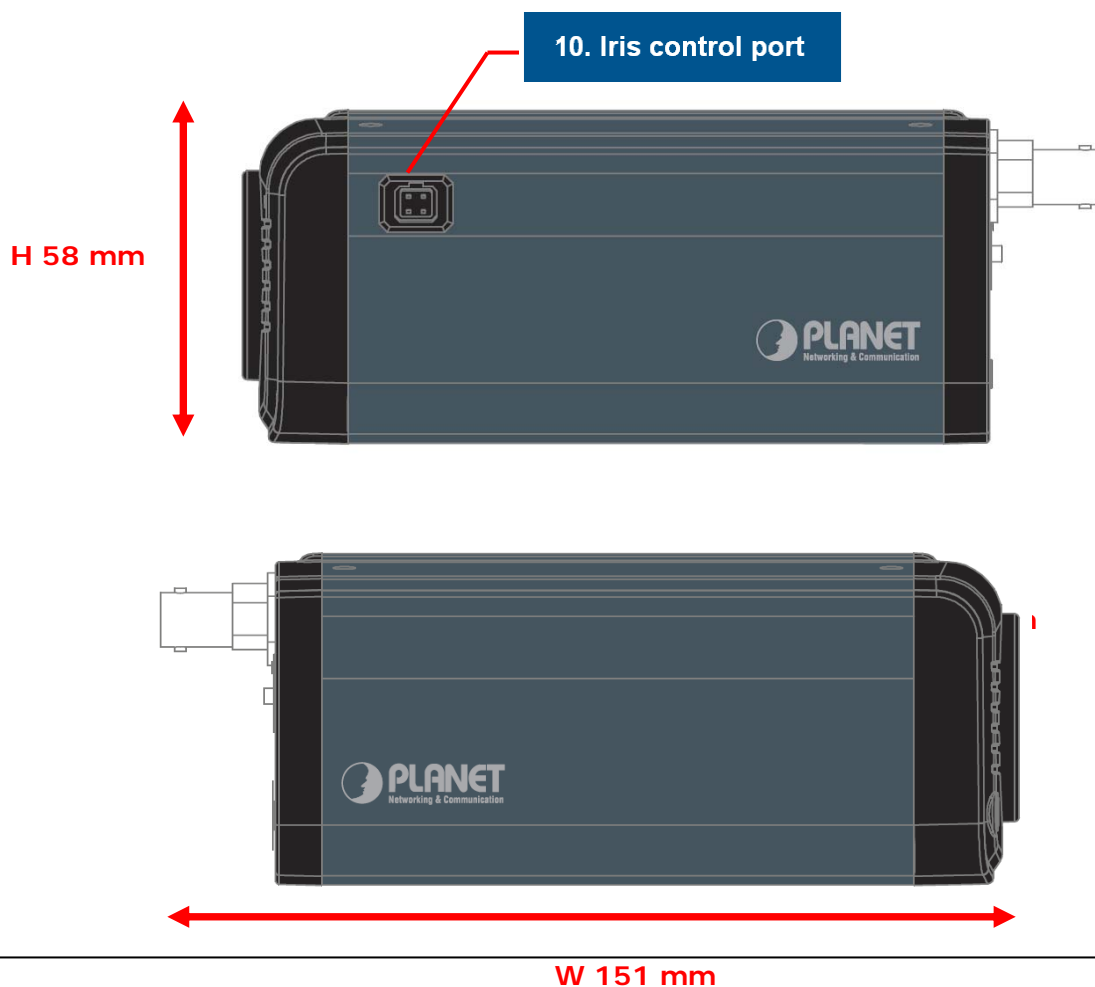
Dimension (mm)

130.4mm (L) x 72.15mm (W) x 58.30mm (H)

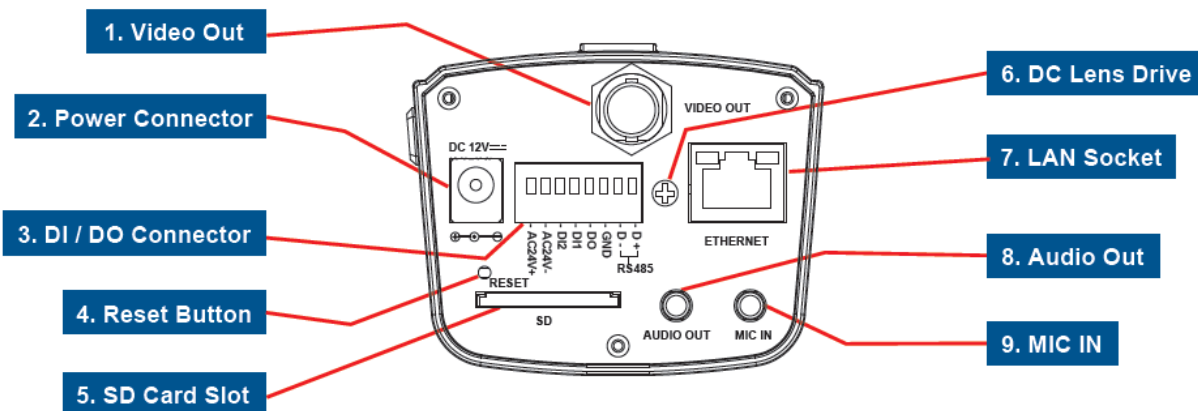
Weight

390g (gross weight)

Side Panel

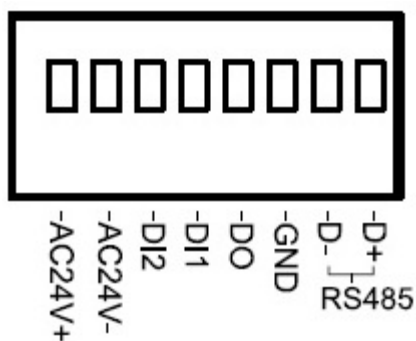


Rear Panel



Interface	Description
1. VIDEO OUT	Output video signal, connect to external video devices
2. DC 12V	Connect to DC power adapter output
3. DI/DO Connector	Digital input / output dry contacts. Connects to external peripherals by wire. See next page for pin definitions. WARNING: DO NOT CONNECT POWERED CABLE!
4. RESET	When the IP camera is not functioning properly, you can use a pen or similar object to press this reset button to reset the IP camera. You can also press and hold this button for more than 5 seconds to clear all settings of IP camera, include administrator password, then the IP camera will download default setting automatically.
5. SD	Inserts SD card for video recording. Maximum 32GB of SD-HD card supported.
6. DC lens drive	Adjust the DC lens driving ability
7. ETHERNET	Connect to your local area network by Ethernet cable. Left LED: Power indicator Right LED: Data transfer
8. AUDIO OUT	Connects to external audio amplifier to output voice. Use 3.5mm audio cable.
9. MIC IN	Connects to external microphone to input audio signal to IP camera. Use 3.5mm audio cable.
10. Iris control port	Connects to lens set's iris control cable

Terminal block for I/O connectors:



Interface	Description
D+	RS485 signal positive (+)
D-	RS485 signal negative (-)
GND	Signal ground
DO	Digital Output #1
DI1	Digital Input #1
DI2	Digital Input #2
AC24V-	AC 24V power input negative (-)
AC24V+	AC 24V power input positive (+)

3.4 ENVIRONMENTAL SPECIFICATION

Operating Temperature

0 ~ 50 degree C

Operating Humidity

20 ~ 85% (non-condensing)

3.5 REGULATORY COMPLIANCE

FCC class B, CE

3.6 BASIC PACKAGING

IP Camera unit x 1
Power Adapter x 1
Quick Installation Guide x 1
User's Manual CD x 1
6mm Lens x 1
Lens Connector x 1
Stand x 1
Screw package x 1

3.7 PACKAGE INFORMATION

Dimension

184 x 170 x 68 mm (W x D x H)

Weight

842g